

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

KER020/4-005CON

Application Number

09/899,372

Applicant(s)

Mark E. Van Dyke, et al.

Filing Date

July 2, 2001

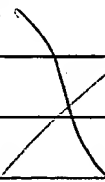
Group Art Unit

1615

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>J</i>	A130	922,692	05/25/09	Thermoplastic keratin composition			
	A131	926,999	07/06/09	Process of producing digestible substances from keratin			
	A132	960,914	06/07/10	Pills for the treatment of diabetes mellitus			
	A133	3,642,498	02/15/72	Method of preparing keratin-containing films and coatings	99	166	
	A134	4,423,032	12/27/83	Hair treatments	424	70	
	A135	4,495,173	01/22/85	Pre-shampoo type hair treatment composition	424	70	
	A136	4,570,629	02/18/86	Hydrophilic biopolymeric copolyelectrolytes, and biodegradable wound dressing comprising same	128	156	
	A137	4,751,074	06/14/88	Hair rinse composition	424	70	
	A138	4,895,722	01/23/90	Hair treatments	424	71	
<i>J</i>	A139	5,047,249	09/10/91	Compositions and methods for treating skin conditions and promoting wound healing	424	543	

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							YES	NO
	B1	Rothman, et al., "Wound healing promoting compositions containing film-forming proteins," PCT Int. Appl., 46 pp., Abstract						
	B2	Koga, et al., "Wound dressing materials from treated animal fibers," Eur. Pat. Appl., 6 pp., Abstract						
	B3	Wallace, et al., "Fragmented polymeric hydrogels for adhesion prevention and their preparation," PCT Int. Appl., 54 pp., Abstract						
	B4	Ichikawa, et al., "Manufacture of keratin films," Jpn. Kokai Tokkyo Koho, 3 pp., Patent No. JP/04091138, Abstract						

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<i>J</i>	C8	Thomas et al., "Isolation of microfibrillar proteins of wool in disulfide form," Melliand Textiberichte, 65(3):20809, 1984	
<i>J</i>	C9	van de Löcht, "Reconstitution of microfibrils from wool and filaments from epidermis proteins," Melliand Textiberichte, 10:780-6, 1987	

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INFORMATION DISCLOSURE PRECIFICATION <small>(Use several sheets if necessary)</small>		Docket Number (Optional) KER020/4-005CON	Application Number 09/899,372
		Applicant(s) Mark E. Van Dyke, et al.	Group Art Unit 3738
Filing Date March 8, 2001		RECEIVED JUL 28 2003 TECH CENTER 1800/2200	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
20	C10	Yoshioka et al., "Cosmetic base," unexamined Japanese Patent Application No. 3-223207, October 2, 1994	
	C11	Yoshioka et al., "Water-soluble hair dressing agent," unexamined Japanese Patent Application No. 8-157342, June 18, 1996	
	C12	Hyuku et al., "Novel amino acid silicone polymer, production thereof, cosmetic particles surface treated with the polymer, and cosmetic containing said particles," unexamined Japanese Patent Application No. 2001-114647, April 24, 2001	
	C13	Ito et al., "Biocompatibility of denatured wool keratin," 39:4, 249-256, April 1982	
	C14	Yamauchi, "The development of keratin: characteristics of polymer films," <i>Fragrance J</i> , 21(5), 62-7, 1993	
	C15	Sauk et al., "Reconstitution of cytokeratin filaments in vitro: further evidence for the role of nonhelical peptides in filament assembly," <i>The Journal of Cell Biology</i> , 99, 1590-1597, November 1984	
	C16	Weber et al., "The structural relation between intermediate filament proteins in living cells and the α -keratins of sheep wool," <i>The EMBO Journal</i> , 1:10, 1155-1160, 1982	
	C17	Hanukoglu et al., "The cDNA sequence of a human epidermal keratin: divergence of sequence but conservation of structure among intermediate filament proteins," <i>Cell</i> , 31, 243-252, November 1982	
	C18	Fraser et al., "Intermediate filaments in α -keratins," <i>Proc. Natl. Acad. Sci. USA</i> , 83, 1179-1183, March 1986	
	C19	Jones, "Studies on microfibrils from α -keratin," <i>Biochimica et Biophysica Acta</i> , 446, 515-524, Received April 5th, 1976	
	C20	Zackroff, et al., "In vitro assembly of intermediate filaments from baby hamster kidney (BHK-21) cells," <i>Proc. Natl. Acad. Sci. USA</i> , 76:12, 6226-6230, December 1979	
28	C21	Mack, et al., "Solid-state NMR studies of the dynamics and structure of mouse keratin intermediate filaments," <i>Biochemistry</i> , 27, 5418-5426, 1988	
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	C25	Iwatsuki, et al., "Comparative studies on naturally occurring antikeratin antibodies in human sera," <i>The Journal of Investigative Dermatology</i> , 87:2, 179-184, August 1986	
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	C27	Stokes, et al., "Passage of water and electrolytes through natural and artificial keratin membranes," <i>Desalination</i> , 42, 321-328, 1982	
	C28	Dedeurwaerder, et al., "Selective extraction of a protein fraction from wool keratin," <i>Nature</i> , 265, 48-49 and 274-276, January 20, 1977	
	C29	Brunner, et al., "Fractionation of tyrosine-rich proteins from oxidized wool by ion-exchange chromatography and preparative electrophoresis," <i>Eur. J. Biochem.</i> , 32, 350-355, 1973	
	C30	Mies, et al., "Chromatographic and electrophoretic investigations of the properties of unprotected low-sulphur wool kerateins," <i>Journal of Chromatography</i> , 405, 365-370, 1987	
	C31	Katsuumi, et al., "Two-dimensional electrophoretic analysis of human hair keratins, especially hair matrix proteins," <i>Arch. Dermatol Res.</i> , 281, 495-501, 1989	
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INFORMATION DISCLOSURE CITATION (Use reverse sheets if necessary)		Docket Number (Optional)	Application Number
		KER020/4-025CON	09/899,372
*EXAMINER INITIAL		Applicant(s)	Group A
		Mark E. Van Dyke, et al.	598
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	C35	Yoshimizu, et al., " ¹³ C CP/MAS NMR study of the conformation of stretched or heated low-sulfur keratin protein films," <i>Macromolecules</i> , 24, 862-866, 1991	
	C36	Schaller, et al., "Membranes prepared from keratin-polyacrylonitrile graft copolymers," <i>Journal of Applied Polymer Science</i> , 25, 783-794, 1980	
	C37	Weiss, et al., "The use of monoclonal antibody to keratin in human epidermal disease: alterations in immunohistochemical staining pattern," <i>The Journal of Investigative Dermatology</i> , 81, 224-230, 1983	
	C38	Starger, et al., "Biochemical and immunological analysis of rapidly purified 10-nm filaments from baby hamster kidney (BHK-21) cells," <i>J. Cell Biology</i> , 78, 93-109, 1978	
	C39	Noishiki, et al., "Application of denatured wool keratin derivatives to an antithrombogenic biomaterial—vascular graft coated with a heparinized keratin derivative—," <i>Inst. Thermal Spring Res. Okayama Univ.</i> , 39:4, 221-227, 1982	
	C40	Valherie, "Chemical modifications of keratins. Application to the preparation of biomaterials and study of their physical, physicochemical and biological properties," Ph.D. Thesis presented to the National Institute of Applied Sciences of Lyon, 1992	
	C41	Dale, "Keratin and other coatings for pills," <i>Pharm. J.</i> , 129, 494-495, 1932, Abstract	
	C42	Schrooyen, et al., "Biodegradable films from selectively modified feather keratin dispersions," <i>Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)</i> , 39(2), 160, 1998, Abstract	
	C43	Schrooyen, et al., "Polymer films from chicken feather keratin," Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27, 1998, Abstract	
	C44	Kikkawa, et al., "Solubilization of keratin. 6. Solubilization of feather keratin by oxidation with performic acid," <i>Hikaku Kagaku</i> , 20(3), 151-162, 1974, Abstract	
JP	C45	Matsunaga, et al., "Studies on the chemical property of human hair keratin. Part 1. Fractionation and amino acid composition of human hair keratin solubilized by performic acid oxidation," <i>Hikaku Kagaku</i> , 27(1), 21-29, 1981, Abstract	
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		KER020/4-005CON	09/899,378
EXAMINER INITIAL		Applicant(s)	Group Art Unit
		Mark E. Van Dyke, et al.	3738
		Filing Date	
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↑	C47	Ito, et al., "Biocompatibility of denatured keratins from wool," <i>Kobunshi Ronbunshu</i> , 39(4), 249-256, 1982, Abstract	
	C48	Gillespie, et al., "Amino acid composition of a sulphur-rich protein from wool," <i>Biochimica et Biophysica Acta</i> , 39, 538-539, 1960	
	C49	Gough, et al., "Amino acid sequences of α-helical segments from S-carboxymethylkerateine-A. Complete sequence of a type-I segment," <i>Biochem. J.</i> , 173, 373-385, 1978	
	C50	Elleman, et al., "Amino acid sequences of α-helical segments from S-carboxymethylkerateine-A. Statistical analysis," <i>Biochem. J.</i> , 173, 387-391, 1978	
	C51	Hogg, et al., "Amino acid sequences of α-helical segments from S-carboxymethylkerateine-A. Tryptic and chymotryptic peptides from a type-II segment," <i>Biochem. J.</i> , 173, 353-363, 1978	
	C52	Earland, et al., "Studies on the structure of keratin. II. The amino acid content of fractions isolated from oxidized wool," <i>Biochimica et Biophysica Acta</i> , 22, 405-411, 1956	
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<p>*EXAMINER INITIAL</p>		Filing Date March 8, 2001	<p align="center">RECEIVED JUL 25 2003</p> <p align="center">TECH CENTER 1600/2900</p>
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1	C59	Marshall, "Characterization of the proteins of human hair and nail by electrophoresis," <i>The Journal of Investigative Dermatology</i> , 80:6, 519-524, 1983	
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	C68	Schörnig, et al., "Synthesis of nerve growth factor mRNA in cultures of developing mouse whisker pad, a peripheral target tissue of sensory trigeminal neurons," <i>The Journal of Cell Biology</i> , 120:6, 1471-1479, 1993	
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<p>*EXAMINER'S INITIALS</p> <p>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</p>					
p	C70	Filshie, et al., "An electron microscope study of the fine structure of feather keratin," <i>The Journal of Cell Biology</i> , 13, 1-12, 1962			
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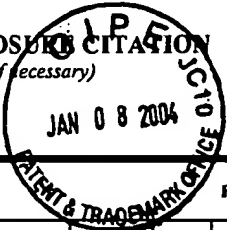
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	C115	Powell, et al., "Cyclic hair-loss and regrowth in transgenic mice overexpressing an intermediate filament gene," <i>The EMBO Journal</i> , 9:5, 1485-1493, 1990	
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							YES	NO
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	B6	S55-187190	12/26/80	Japan			X	
	B7	1988-202582	08/13/88	Japan			X	
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No date p p	C121	Inagaki, et al., "Functionality of lamb wool keratin derivatives and a few characteristics of polymer materials for medical applications," <i>Chemical Research Institute, Kyoto University</i>						
	C122	Sakabe, et al., "Differential thermal analysis of component proteins from wool," <i>Sen-I Gakkaishi</i> 39(12): T-517-T-522 (1982)						
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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Docket Number (Optional)

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Mark E. Van Dyke, et al.

Filing Date

July 2, 2001

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<i>JP</i>	B16	63-47470	09/22/88	Japan				X
	B17	62-1731	01/14/87	Japan				X
	B18	2001-114647	04/24/01	Japan				X
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	B20	60-220068	11/02/85	Japan				X
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